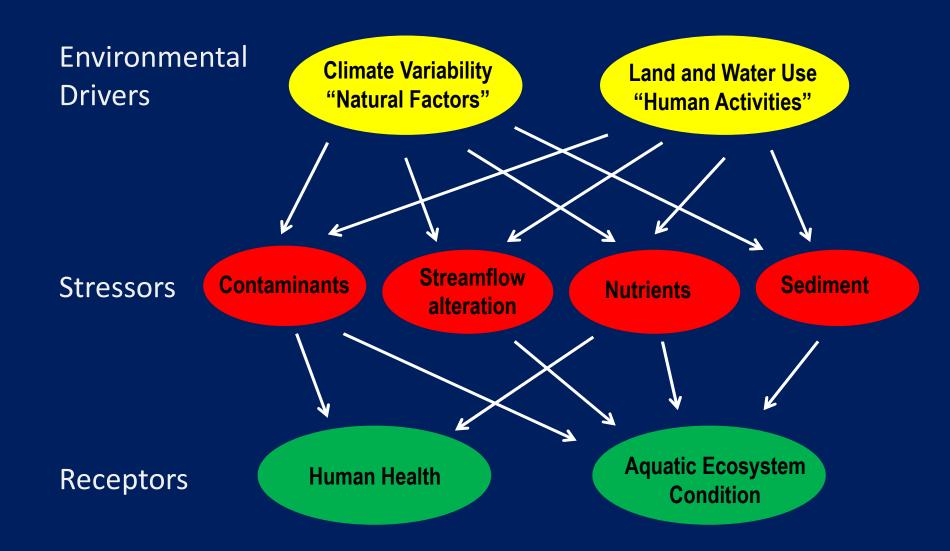
Assessing the Nation's water quality

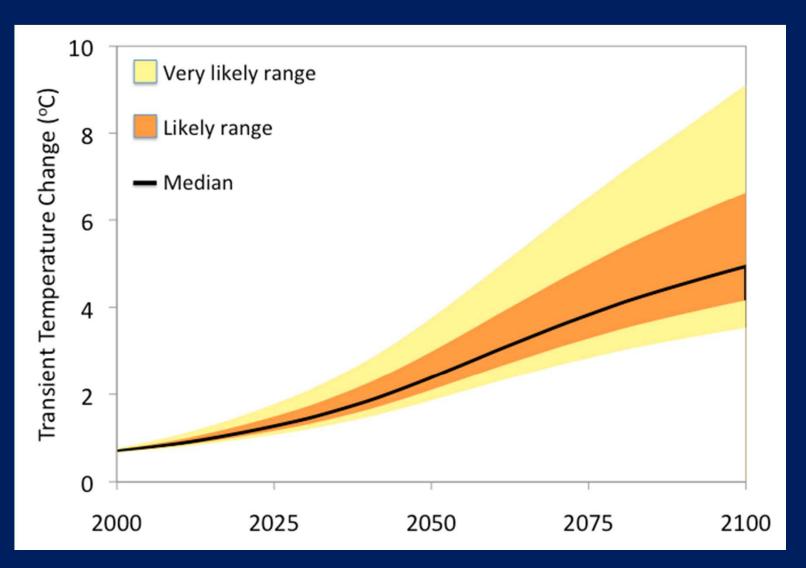
- 1. What is its current condition?
- 2. How has it changed over time?
- 3. What will be its condition in the future?

Assessing the Nation's water quality

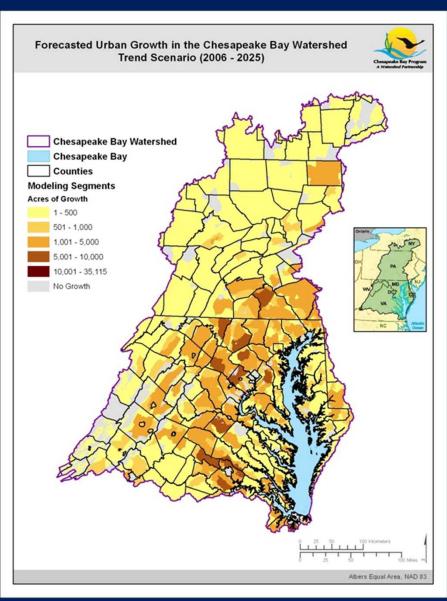
- 1. What is its current condition?
- 2. How has it changed over time?
- 3. What will be its condition in the future?



Drivers of change: Climate



Drivers of change: Land use



Source: P. Claggett 5

Drivers of change: Management practices



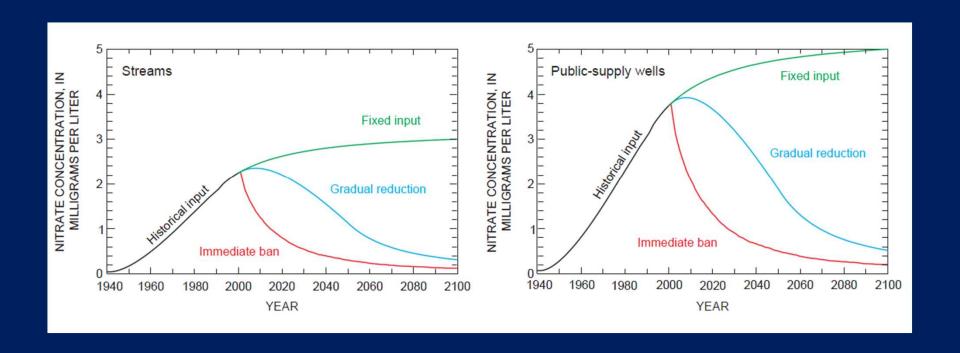




NAWQA Cycle 3 forecasting products

- Models that predict how natural factors and human activities may affect future water quality and ecosystem conditions
- Model-based decision-support tools for scientists, managers and policy makers

Models provide estimates of change in waterquality conditions and lag times



Models that predict the suitability of water resources for human and aquatic ecosystem needs

Groundwater
Streams and rivers

Stressors

- Physical
- Chemical

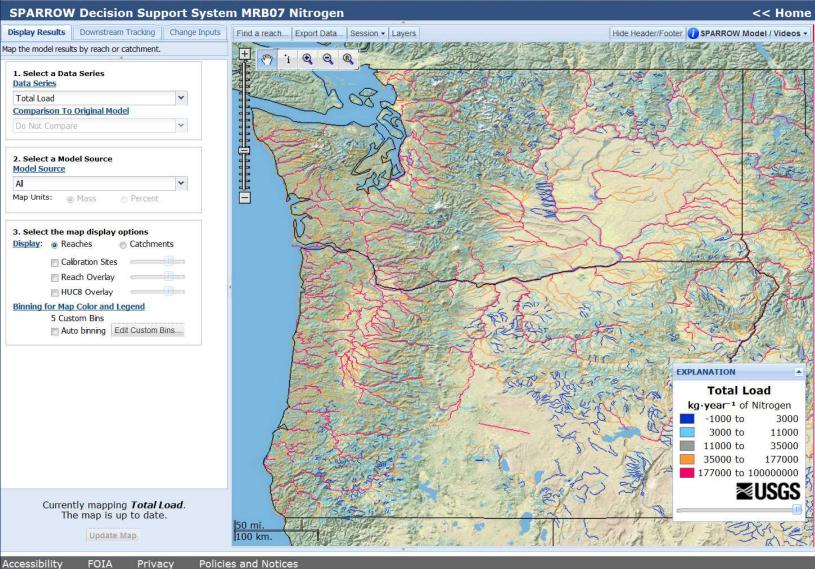
Spatial scales

- National
- Regional
- Watershed and aquifer

Decision-support tools

- Target audience
 - Policy makers
 - Water resource managers
 - Scientists
- Scales range from national to single aquifer or watershed
- Functionality ranges from simple to complex





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SPARROW Decision Support System MRB07 Nitrogen << Home Display Results Downstream Tracking Change Inputs Find a reach... Export Data... Session ▼ Layers Hide Header/Footer SPARROW Model / Videos ▼ Map the model results by reach or catchment. 1. Select a Data Series **Data Series** Total Load Comparison To Original Model Do Not Compare 2. Select a Model Source **Model Source** All Map Units: @ Mass Percent 3. Select the map display options Display: @ Reaches Catchments Calibration Sites Reach Overlay HUC8 Overlay Binning for Map Color and Legend 5 Custom Bins Auto binning Edit Custom Bins... **EXPLANATION Total Load** kg-year 1 of Nitrogen -1000 to 3000 3000 to 11000 11000 to 35000 177000 35000 to 177000 to 100000000 Currently mapping Total Load. The map is up to date. 50 mi. Update Map 100 km. Accessibility FOIA Privacy Policies and Notices

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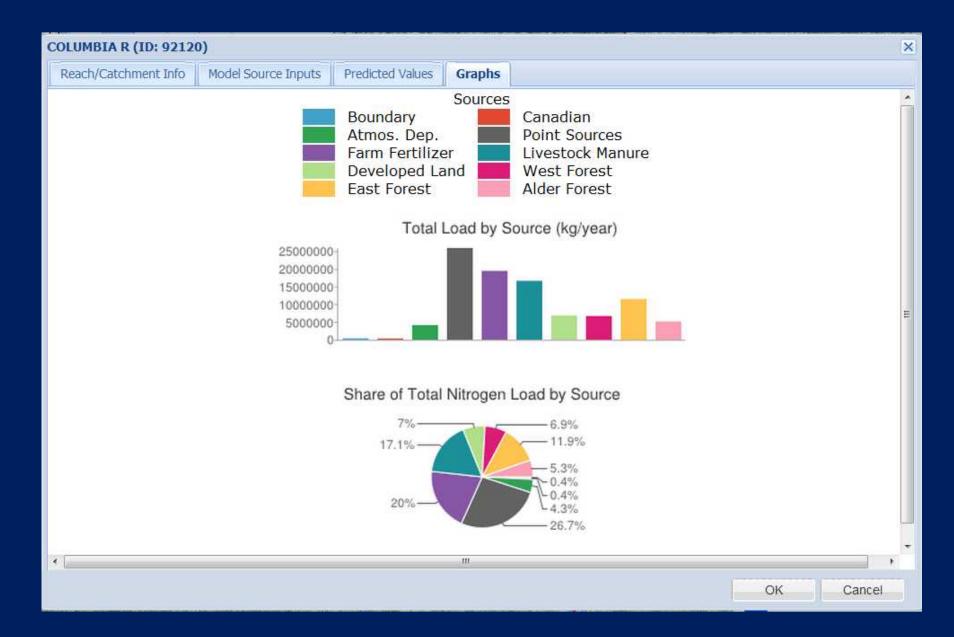
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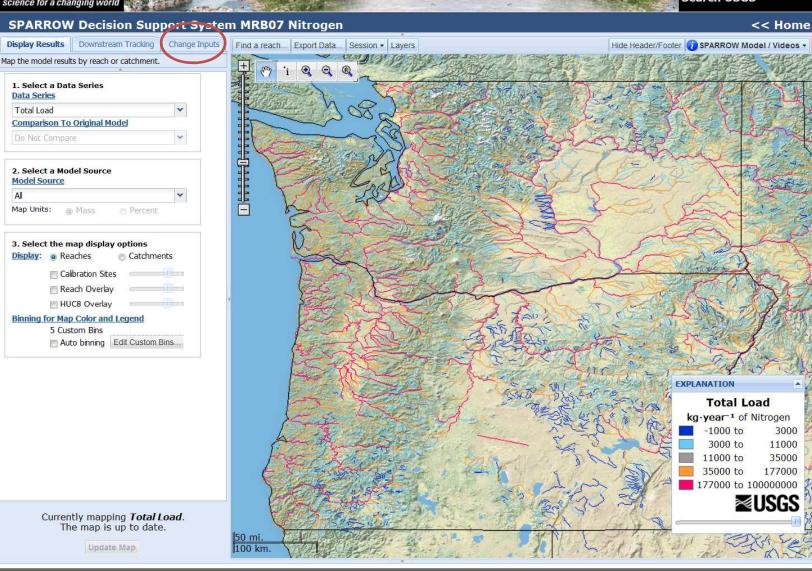
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Related sessions during the week

- Tue, C6: Dam removal
- Tue, C9: Decision-support systems
- Wed, D4: Climate change impacts on water quality
- Thu, I6: Dam removal

